Mathematics
Student Background Questionnaire

2009
Grade 12

DIRECTIONS

In the next two sections, you will be asked questions about yourself and your education. The choices for some questions will be written across the page as shown. Fill in the oval for the best answer.

Example 1

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day
1. How often do you watch movies on TV?	Ⓐ	Ⓑ	Ⓒ	Ⓓ

You should have filled in the oval below the answer that best tells how often you watch movies on TV.

The choices for some questions will be written down the page as shown. Now read Example 2 and indicate your answer.

Example 2

2. Which event would you prefer to attend?

   Ⓐ basketball game

   Ⓑ car show

   Ⓒ concert

   Ⓓ play

Make your answer mark clear and dark in the oval. If you make a mistake or want to change your answer, be sure to completely erase any unwanted marks.

Do not go past the 🛑 **sign at the end of each section until you are told to do so.**

If you finish before time is called, go back and check your work on that section only. Use your time carefully. Do as much as you can in each section.

Page 1

STOP

In this section, please tell us about yourself and your family. The section has 14 questions. Mark your answers in your booklet.

1. Are you Hispanic or Latino? Fill in **one or more ovals.**

   Ⓐ No, I am not Hispanic or Latino.

   Ⓑ Yes, I am Mexican, Mexican American, or Chicano.

   Ⓒ Yes, I am Puerto Rican or Puerto Rican American.

   Ⓓ Yes, I am Cuban or Cuban American.

   Ⓔ Yes, I am from some other Hispanic or Latino background.

2. Which of the following best describes you? Fill in **one or more ovals.**

   Ⓐ White

   Ⓑ Black or African American

   Ⓒ Asian

   Ⓓ American Indian or Alaska Native

   Ⓔ Native Hawaiian or other Pacific Islander

For the rest of the questions in this section, fill in only **one** oval for each question.

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3. Does your family get a newspaper at least four times a week?

Ⓐ Yes

Ⓑ No

Ⓒ I don't know.

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4. Does your family get any magazines regularly?

Ⓐ Yes

Ⓑ No

Ⓒ I don't know.

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5. About how many books are there in your home?

Ⓐ Few (0–10)

Ⓑ Enough to fill one shelf (11–25)

Ⓒ Enough to fill one bookcase (26–100)

Ⓓ Enough to fill several bookcases (more than 100)

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6. Is there a computer at home that you use?

Ⓐ Yes

Ⓑ No

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7. Is there an encyclopedia in your home? It could be a set of books, or it could be on the computer.

Ⓐ Yes

Ⓑ No

Ⓒ I don't know.

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8. About how many pages a day do you have to read in school and for homework?

Ⓐ 5 or fewer

Ⓑ 6–10

Ⓒ 11–15

Ⓓ 16–20

Ⓔ More than 20

VB331339

9. How often do you talk about things you have studied in school with someone in your family?

Ⓐ Never or hardly ever

Ⓑ Once every few weeks

Ⓒ About once a week

Ⓓ Two or three times a week

Ⓔ Every day

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10. How many days were you absent from school in the last month?

Ⓐ None

Ⓑ 1 or 2 days

Ⓒ 3 or 4 days

Ⓓ 5 to 10 days

Ⓔ More than 10 days

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11. How far in school did your mother go?

Ⓐ She did not finish high school.

Ⓑ She graduated from high school.

Ⓒ She had some education after high school.

Ⓓ She graduated from college.

Ⓔ I don't know.

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12. How far in school did your father go?

Ⓐ He did not finish high school.

Ⓑ He graduated from high school.

Ⓒ He had some education after high school.

Ⓓ He graduated from college.

Ⓔ I don't know.

VB331451

13. How often do people in your home talk to each other in a language other than English?

Ⓐ Never

Ⓑ Once in a while

Ⓒ About half of the time

Ⓓ All or most of the time

HE002549

14. Which of the following best describes your high school program?

Ⓐ General

Ⓑ Academic or college preparatory

Ⓒ Vocational or technical

STOP

SECTION 4

This section has 26 questions. Mark your answers in your booklet. Unless directed otherwise, fill in only **one** oval for each question.

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1. Which courses have you taken from eighth grade to the present? If you have taken a course more than once, give the **most recent** year you took it. Fill in **one** oval on each line. INCLUDE courses taken in summer school, but DO NOT INCLUDE topics that were only taught as part of a longer course (such as trigonometry taught in drafting class or computer programming taught in Algebra II).

	I have never taken this course	I took this course in or before Grade 8	I took this course in Grade 9	I took this course in Grade 10	I took this course in Grade 11	I took this course in Grade 12	
a. **Basic** or **general** mathematics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC298769
b. **Tech-prep** mathematics, **business** mathematics, **consumer** mathematics, or other **applied mathematics** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC298847
c. **Introduction to algebra** or **pre-algebra** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC299007
d. **Algebra I** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC299008
e. **Geometry** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC299009
f. **Algebra II** course, **with or without trigonometry**	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC299010
g. **Trigonometry** (as a separate course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC299012
h. **Pre-calculus** course (also called third-year algebra or elementary functions and analysis)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC299013
i. **Unified**, **integrated**, **or sequential** mathematics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC299030
j. **Probability or statistics** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC299032
k. **Calculus** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC299033
l. **Discrete or finite** mathematics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC299035
m. **Other** mathematics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC299036
n. **Computer programming** course (such as C++, Pascal, Visual Basic, etc.)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VC299037

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VB543295

2. Are you currently enrolled in or have you taken an Advanced Placement (AP) course in mathematics? Fill in **one or more** ovals.

Ⓐ Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus AB.

Ⓑ Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus BC.

Ⓒ Yes, I am enrolled in or have taken Advanced Placement (AP) Statistics.

Ⓓ No, I have never taken an Advanced Placement (AP) mathematics course.

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3. Are you currently enrolled in or have you taken any **online** mathematics courses for **high school or college credit**?

Ⓐ Yes

Ⓑ No

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4. Are you currently enrolled in or have you taken International Baccalaureate courses in mathematics?

Ⓐ Yes

Ⓑ No

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5. Was there a mathematics course that you would have liked to have taken this school year but did not?

Ⓐ Yes, but my school does not offer the course.

Ⓑ Yes, but the course was full.

Ⓒ Yes, but I did not have the necessary prerequisites.

Ⓓ Yes, but my schedule was full.

Ⓔ No, there was no other course that I wanted to take.

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6. Please indicate how much you DISAGREE or AGREE with the following statements. Fill in **one** oval on each line.

	Strongly disagree ⒶA	Disagree ⒷB	Agree ⒸC	Strongly agree ⒹD
a. Because mathematics is fun, I wouldn't want to give it up.				
b. I like mathematics.	Ⓐ	Ⓑ	Ⓒ	Ⓓ
c. Mathematics is one of my favorite subjects.	Ⓐ	Ⓑ	Ⓒ	Ⓓ

VB543267

7. What kind of **calculator** do you usually use when you are **not in mathematics class**?

Ⓐ None

Ⓑ Basic four-function (addition, subtraction, multiplication, division)

Ⓒ Scientific (not graphing)

Ⓓ Graphing

VC299327

8. Did you bring your own calculator for this test?

Ⓐ Yes

Ⓑ No

VC299329

9. What kind of calculator do you have available for this test?

Ⓐ Don't know (NAEP provided)

Ⓑ Basic four-function (addition, subtraction, multiplication, division)

Ⓒ Scientific (not graphing)

Ⓓ Graphing

VC189591

10. Do you use the Internet at home?

Ⓐ Yes

Ⓑ No

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11. Are you currently taking a mathematics course?

    Ⓐ Yes ➔ *Go to Question 12*

    Ⓑ No ➔ *Skip to Question 22*

12. Do you study or do work for mathematics at an after-school or tutoring program?

    Ⓐ Yes

    Ⓑ No

13. How often do you feel the following way in your mathematics class? Fill in **one** oval on each line.

	Never or hardly ever	Sometimes	Often	Always or almost always
a. I have a clear understanding of what my mathematics teacher is asking me to do.	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b. The mathematics work is too easy.	Ⓐ	Ⓑ	Ⓒ	Ⓓ
c. The mathematics work is challenging.	Ⓐ	Ⓑ	Ⓒ	Ⓓ
d. The mathematics work is engaging and interesting.	Ⓐ	Ⓑ	Ⓒ	Ⓓ
e. I am learning.	Ⓐ	Ⓑ	Ⓒ	Ⓓ

14. How often do you use these different types of calculators in your mathematics class? Fill in **one** oval on each line.

	Never use	Sometimes, but not often	Usually use
a. Basic four-function (addition, subtraction, multiplication, division)	Ⓐ	Ⓑ	Ⓒ
b. Scientific (not graphing)	Ⓐ	Ⓑ	Ⓒ
c. Graphing	Ⓐ	Ⓑ	Ⓒ

15. When you take a mathematics test or quiz, how often do you use a calculator?

Ⓐ Never

Ⓑ Sometimes

Ⓒ Always

16. For each of the following activities, how often do you use a **calculator**? Fill in **one** oval on each line.

	Never or hardly ever	Once every few weeks	About once a week	Two or three times a week	Every day or almost every day
a. To check your work on mathematics homework assignments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
b. To calculate the answers to mathematics homework problems	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
c. To work in class on mathematics lessons led by your teacher	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ

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17. How often do you use a computer for mathematics at school?

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Ⓐ Never or hardly ever

Ⓑ Once every few weeks

Ⓒ About once a week

Ⓓ Two or three times a week

Ⓔ Every day or almost every day

18. Do you use a computer for mathematics homework at home?

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Ⓐ Yes

Ⓑ No

19. On a typical day, how much time do you spend doing work for mathematics class on a computer? Include work you do in class and for homework.

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Ⓐ None

Ⓑ Half an hour or less

Ⓒ About 1 hour

Ⓓ About 2 hours

Ⓔ More than 2 hours

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20. When you are doing mathematics for school or homework, how often do you use these **different types of computer programs**? Fill in **one** oval on each line.

	Never or hardly ever	Once every few weeks	About once a week	Two or three times a week	Every day or almost every day	
a. A spreadsheet program for mathematics class assignments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543157
b. A program to practice or drill on mathematics facts (addition, subtraction, multiplication, division)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543158
c. A program that presents new mathematics lessons with problems to solve	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543160
d. The Internet to learn things for mathematics class	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543159
e. A calculator program on the computer to solve or check problems for mathematics class	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543161
f. A graphing program on the computer to make charts or graphs for mathematics class	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543262
g. A statistical program to calculate patterns such as correlations or cross tabulations	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB417157
h. A word processing program to write papers for mathematics class	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543156
i. A program to work with geometric shapes for mathematics class	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC466133

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VC189613

21. How often do you use e-mail, instant messages, blogs, or text messages to do any of the following? Fill in **one** oval on each line.

	Never or hardly ever	Once every few weeks	About once a week	Two or three times a week	Every day or almost every day	
a. Talk online with friends about mathematics work	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC299268
b. Get help with mathematics from someone other than your teacher, family, classmates, or friends	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC189627

VB595182

22. How hard was this test compared to most other tests you have taken this year in school?

Ⓐ Easier than other tests

Ⓑ About as hard as other tests

Ⓒ Harder than other tests

Ⓓ Much harder than other tests

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23. How hard did you try on this test compared to how hard you tried on most other tests you have taken this year in school?

Ⓐ Not as hard as on other tests

Ⓑ About as hard as on other tests

Ⓒ Harder than on other tests

Ⓓ Much harder than on other tests

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24. How important was it to you to do well on this test?

Ⓐ Not very important

Ⓑ Somewhat important

Ⓒ Important

Ⓓ Very important

QK070697

25. How much education do you think you will complete?

Ⓐ I will not finish high school.

Ⓑ I will graduate from high school.

Ⓒ I will have some education after high school.

Ⓓ I will graduate from college.

Ⓔ I will go to graduate school.

Ⓕ I don't know.

VC101417

26. What do you expect that your main
activity will be in the year after you
leave high school?

   Ⓐ Working full time

   Ⓑ Attending a vocational, technical,
     or business school

   Ⓒ Attending a two-year college

   Ⓓ Attending a four-year college,
     service academy, or university

   Ⓔ Serving in the military

   Ⓕ Other

STOP